

Gulf of Mexico Harmful Algal Bloom Bulletin

15 February 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: February 12, 2007

Conditions Report

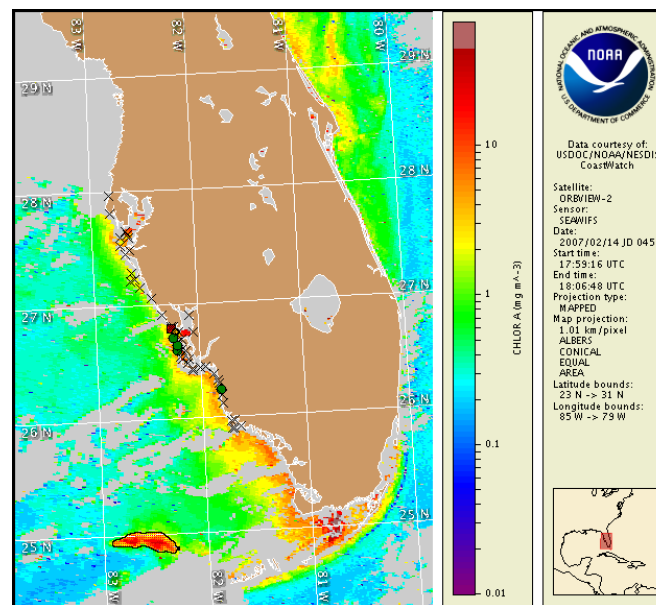
A harmful algal bloom has been identified in patches from Sarasota to central Lee County as well as in the Lower Keys. Patchy moderate impacts are possible Friday through Sunday for Charlotte County. No impacts are expected elsewhere in the bloom region.

Analysis

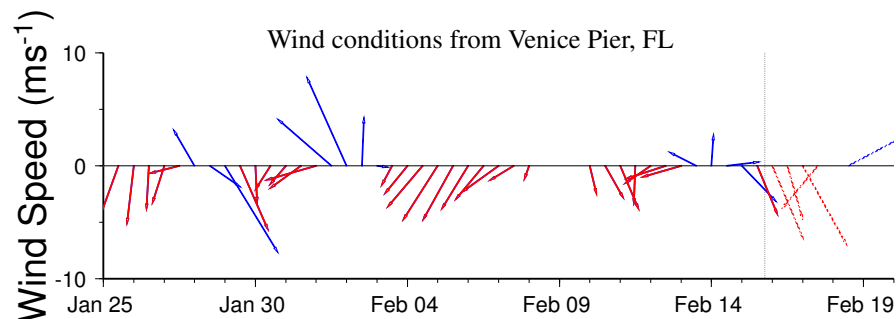
The bloom currently extends from Sarasota to central Lee County. Recent samples over the past few weeks have confirmed that the bloom is no longer present in Collier and southern Lee County. A few background samples were reported this week at Boca Grande Pass, Pine Island Sound, and Gasparilla Sound in Lee County on 2/12 (FWRI). Satellite imagery from February 13 indicates that chlorophyll concentrations are currently not elevated along southwest Florida. Northwestern winds Friday through Sunday may increase coastal impacts for Charlotte County, where high concentrations of *K. Brevis* were found on 2/8 (FWRI).

The harmful algal bloom persists northwest of Marquesas Keys with chlorophyll concentrations greater than $20\mu\text{g/L}$ along its east-west axis from $24^{\circ}53'25''\text{N}$, $82^{\circ}22'18''\text{W}$ to $24^{\circ}58'29''\text{N}$, $82^{\circ}52'42''\text{W}$.

~Keller, Allen



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from February 5-13 shown as red squares (high), red triangles (medium), red diamonds (low b), red circles (low a), orange circles (very low b), yellow circles (very low a), green circles (present), and black "X" (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf



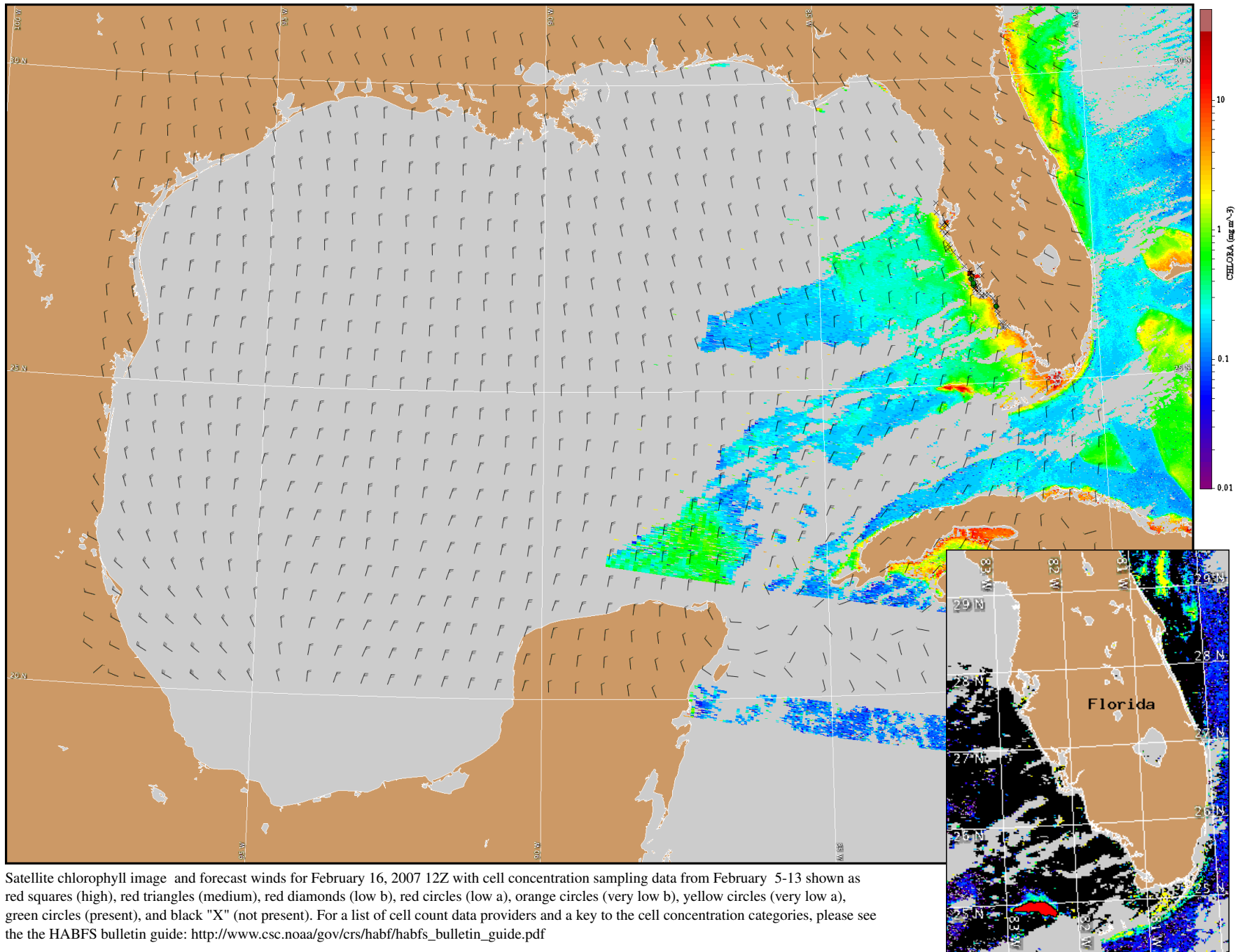
Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

SW Florida: Northerly winds today (15-20 knots; 8-10 m/s), northwesterly winds on Friday (15-20 knots; 8-10 m/s), northeasterly winds on Saturday with westerly winds in the afternoon (10-20 knots; 5-10 m/s), and northwesterly winds on Sunday (20-25 knots; 10-13 m/s).

Lower Keys: Northerly winds today (10-20 knots; 5-10 m/s), northwesterly winds on Friday (15-20 knots; 8-10 m/s), northerly winds on Saturday (10-15 knots; 8-10 m/s), and northwesterly winds on Sunday (20-25 knots; 10-13 m/s).

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1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Verified HAB areas shown in red. Other bloom areas shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Sand Key, FL

